

AMENDMENT TO THE CLAIMS:

✓ 1. (Cancelled)

2. (Previously Amended) An X-ray image radiographing method of radiographing an object of a breast, comprising using an X-ray tube having a size D of focal spot defined by the following formula:

$$100 \mu\text{m} \leq D \leq 600 \mu\text{m};$$

setting a distance R1 between the X-ray tube and an object of a breast so as to be within a range defined by the following formula:

$$(D-7)/200 \text{ m} \leq R1 \leq 5 \text{ m}; \text{ and}$$

setting a distance R2 between the object and an X-ray detector so as to be within a range defined by the following formula:

$$0.15 \text{ m} \leq R2 \leq 1.4 \text{ m}.$$

✓ 3-4. (Cancelled)

5. (Original) The X-ray image radiographing method of claim 2, wherein the size of focal spot is 50  $\mu\text{m}$  to 500  $\mu\text{m}$ .

6. (Original) The X-ray image radiographing method of claim 2, wherein the energy of X-ray in a line spectrum is 10 keV to 60 keV.

7. (Original) The X-ray image radiographing method of claim 2, wherein an anode of the X-ray tube contains molybdenum or rhodium.

8. (Original) The X-ray image radiographing method of claim 2, wherein a screen/film system having an image contrast  $\bar{G}$  of 1.5 to 3.6 is used.

9. (Original) The X-ray image radiographing method of claim 2, wherein a screen/film system having an image contrast  $\bar{G}$  of 1.5 to 4.0 is used.

10. (Original) The X-ray image radiographing method of claim 2, wherein a digital X-ray detector having a size of a pixel of 1  $\mu\text{m}$  to 200  $\mu\text{m}$  is used.

11. (Original) The X-ray image radiographing method of claim 10, wherein an enhanced boundary portion of the object is detected from the obtained image data and a width of the boundary portion and/or image contrast is further enhanced.

12-25. (Cancelled)

26. (Currently Amended) The X-ray image radiographing method of claim 2, wherein the distance R1 satisfies the following formula:

$$0.7 \text{ m} \leq R2 - R1 \leq 5 \text{ m.}$$